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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/897,848	07/02/2001	Narayan L. Gehlot	Gehlot 22	1077
7590 06/15/2005 HARNESS, DICKEY & PIERCE, P.L.C			EXAMINER	
			TRAN, DZUNG D	
P.O. BOX 8910 RESTON, VA 20195		·	ART UNIT	PAPER NUMBER
			2638	
			DATE MAILED: 06/15/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/897,848	GEHLOT, NARAYAN L.			
Office Action Summary	Examiner	Art Unit			
	Dzung D. Tran	2633			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1' after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 21 Ja	anuary 2005.	,			
2a)⊠ This action is FINAL. 2b)☐ This	action is non-final.				
,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
 4) Claim(s) 1-29 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 26 and 28 is/are allowed. 6) Claim(s) 1-6,8,10-12,14-23,25,27 and 29 is/are rejected. 7) Claim(s) 7,9,13 and 24 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) The specification is objected to by the Examine	er.	•			
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the prio application from the International Burear * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)	· _				
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4)				

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DETAILED ACTION

Specification

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 3, 4, 15, 20-22 and 25 are rejected under 35 U.S.C. 102(e) as being anticipated by Habel US patent no. 6,592,273.

Regarding claim 1, Habel discloses in figure 2, a method for acquiring operating parameters in a communications system operable to transmit a data signal, the method comprising the steps of:

Transmitting site 1 for generating at least one operating parameter carrier having a frequency value (f_{ch}) in a vicinity of a null, associated with a data rate bit period, of a data spectrum of the data signal (figure 1, col. 3, lines 3-9);

modulating the at least one operating parameter carrier (fch) by TDP 9;

summing the operating parameter carrier with the data signal; transmitting the summed signal by summer 4; and

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a receiving site 3 for recovering the at least one operating parameter carrier from the summed signal.

Regarding claim 15, Habel discloses in figure 2, a communication system comprising:

an optical link 5 (equivalent to a channel);

a light source 6 (equivalent to a transmitter) for transmitting a data signal from data source (e.g., data is received by TDP 9) having a spectrum, the transmitter including:

an operating parameter carrier generator operable to provide an operating parameter carrier at a frequency (f_{ch}) having a value in a null, associated with a data rate bit period, of the spectrum (figure 1, col. 3, lines 3-9); and

a summer 4 for summing the operating parameter carrier (f_{ch}) with the data signal wherein the transmitter transmits the summed signal over an optical link 5 (equivalent to a channel); and

a detector 8 (equivalent to a receiver) for receiving the summed signal, the receiver operable to recover the operating parameter carrier (f_{ch}), see figure 2.

Regarding claim 3, Habel discloses the communication system comprises at least one optical channel (e.g., an optical link 5 of figure 2).

Regarding claims 4 and 25, Habel discloses in figure 1, the operating parameter carrier (f_{ch}) is a sinusoid.

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Regarding claim 20, Habel discloses the communication system comprises at least one optical channel (e.g., an optical link 5 of figure 2) a summer 4 including an optocoupler (e.g., summer 4 is summing the optical signal).

Regarding claim 21, Habel discloses the communication system implements DWDM which is inherently to WDM (col. 2, lines 62-66).

Regarding claim 22, Habel discloses data signal is an NZR data signal (col. 3, line 4).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 2, 5, 6, 8, 12, 16, 17, 23, 27 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Habel US patent no. 6,592,273 in view of Bruene US patent no. 4,302,844.

Regarding claims 2, 5, 12, 16, 23, 27 and 29, Habel discloses all the limitations except for the data spectrum of the data signal comprises a plurality of nulls, and at least another operating parameter carrier. Since Habel reference taught the technique of creates a null into the stream of data signal associated with a data rate bit period

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(figure 1, col. 3, lines 3-9). Therefore, if it is not inherently, it would be obvious to one of ordinary skill in the art would have been using the same technique taught by Habel to insert a plurality of carrier frequencies in the vicinity of plurality nulls for minimum cross-talk (col. 3, lines 5-6 of Habel). Furthermore, Bruene US patent no. 4,302,844 shown in figures 2a-2f, the data signal comprises a plurality of nulls having a plurality of carrier frequencies in the vicinity of plurality nulls. Therefore, at the time of the invention was made, it would have been obvious to include the teaching of Bruene in the system of Habel for minimum cross-talk, thus it is easier for monitoring the optical SNR and BER.

Regarding claim 6, Habel discloses the communication system implements DWDM which is inherently to WDM (col. 2, lines 62-66).

Regarding claim 8, Habel discloses data signal is an NZR data signal (col. 3, line 4).

Regarding claim 17, Habel discloses in figure 1, the operating parameter carrier (f_{ch}) is a sinusoid.

5. Claims 10, 11, 14, 18 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Habel US patent no. 6,592,273 in view of Davarian US patent no. 4,675,880.

Regarding claims 10 and 18, Habel discloses all the limitations except for bandwidth limiting at least one operating parameter carrier. Davarian discloses the filters 43-46 for bandwidth limiting at least one operating parameter carrier (col. 8, lines

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cross-talk between channel.

12-16). At the time of the invention was made, it would have been obvious for one of ordinary skill in the art to include the filter of Davarian in the system of Habel in order to stop the un-wanted bandwidth to transmit over the optical system. Thus, it reduces the

Regarding claims 11 and 19, Davarian further discloses a filter 40 for bandwidth limiting the summed signal (col. 8, line 4).

Regarding claim 14, Davarian further discloses a filter 40 for bandwidth limiting the summed signal (col. 8, line 4).

- 6. Claims 7, 9, 13 and 24 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 7. Claims 26 and 28 are allowed.

Response to Arguments

8. Applicant's arguments with respect to claims 1-29 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dzung Tran whose telephone number is (571) 272-3025.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, Jason Chan, can be reached on (571) 272-3022.

The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Dzung Tran

(ENNETH **VANDERPUYE** PRIMARY EXAMINER

05/26/2005